AMENDMENTS TO THE CLAIMS

1-41. (Cancelled)

- 42. (Withdrawn) A method of inducing hair growth in a mammal by providing to said mammal a population of cells, wherein at least 30% of said cells are multipotent stem cells or progeny thereof and are capable of producing hair follicle cells.
- 43. (Withdrawn) The method of claim 42, wherein at least 80% of the cells are multipotent stem cells or progeny thereof and are capable of producing hair follicle cells.
- 44. (Withdrawn) The method of claim 43, wherein at least 90% of the cells are multipotent stem cells or progeny thereof and are capable of producing hair follicle cells.
- 45. (Withdrawn) The method of claim 44, wherein at least 95% of the cells are multipotent stem cells or progeny thereof and are capable of producing hair follicle cells.
- 46. (Withdrawn) The method of claim 42, wherein said stem cells are substantially purified from hair follicles or dermal papilla-containing portions thereof.
- 47. (Withdrawn) The method of claim 42, wherein said multipotent stem cells express at least one protein selected from the group consisting of nestin, WNT-1, vimentin, fibronectin, S100, slug, snail, twist, Pax3, Sox9, Dermo, and SHOX2.
- 48. (Withdrawn) The method of claim 42, wherein said multipotent stem cells do not express measurable levels of p75NTR.

- 49. (Withdrawn) The method of claim 42, wherein said multipotent stem cells do not express measurable levels of at least one protein selected from the group consisting of tyrosinase, c-kit, tryp1, DCT, MBP, P0, and SOX10.
- 50. (Withdrawn) The method of claim 42, wherein said mammal has a condition characterized by a reduced amount of hair.
- 51. (Withdrawn) The method of claim 50, wherein said condition is the result of alopecia, accidental injury, damage to hair follicles, surgical trauma, a burn wound, radiation therapy, chemotherapy, an incisional wound, or a donor site wound from skin transplant.
- 52. (Withdrawn) The method of claim 42, wherein said cells are from said mammal.
- 53. (Currently amended) A method of regenerating skin in a mammal <u>in need</u> thereof by providing to said mammal a population of cells, wherein at least 30% of said cells are multipotent stem cells or progeny thereof and are capable of regenerating skin, wherein said cells express nestin and fibronectin and do not express measurable levels <u>p75NTR</u> or keratin 15 using northern blot analysis, RT-PCR, western blot analysis, or immunohistochemical analysis, and wherein said cells regenerate skin in said mammal.
- 54. (Original) The method of claim 53, wherein at least 80% of the cells are multipotent stem cells or progeny thereof and are capable of regenerating skin.

- 55. (Currently amended) The method of claim 54, wherein at least 90% of the cells are are multipotent stem cells or progeny thereof and are capable of regenerating skin.
- 56. (Original) The method of claim 55, wherein at least 95% of the cells are multipotent stem cells or progeny thereof and are capable of regenerating skin.
- 57. (Currently amended) The method of claim 53, wherein said stem cells are substantially purified from hair follicles or the dermal papilla of a hair follicle papillacontaining portions thereof.
- 58. (Currently amended) The method of claim 53, wherein said multipotent stem cells <u>further</u> express at least one protein selected from the group consisting of nestin, WNT-1, vimentin, fibronectin, S100, slug, snail, twist, Pax3, Sox9, Dermo, and SHOX2.

59. (Cancelled)

- 60. (Withdrawn currently amended) The method of claim 53, wherein said multipotent stem cells do not express measurable levels of at least one protein selected from the group consisting of tyrosinase, c-kit, tryp1, DCT, MBP, P0, and SOX10 using northern blot analysis, RT-PCR, western blot analysis, or immunohistochemical analysis.
- 61. (Original) The method of claim 53, wherein said mammal has a condition characterized by a damaged skin.

- 62. (Original) The method of claim 61, wherein said condition is the result of accidental injury, surgical trauma, a burn wound, an incisional wound, or a donor site wound from skin transplant.
- 63. (Original) The method of claim 53, wherein said cells are from said mammal.
- 64. (Withdrawn) A method of making hair follicles, said method comprising culturing multipotent stem cells under conditions that induce said stem cells to differentiate into hair follicles.
- 65. (Withdrawn) The method of claim 53, wherein said stem cells are substantially purified from hair follicles or dermal papilla-containing portions thereof.
- 66. (Withdrawn) The method of claim 53, wherein said multipotent stem cells express at least one protein selected from the group consisting of nestin, WNT-1, vimentin, fibronectin, S100, slug, snail, twist, Pax3, Sox9, Dermo, and SHOX2.
- 67. (Withdrawn) The method of claim 53, wherein said multipotent stem cells do not express measurable levels of p75NTR.
- 68. (Withdrawn) The method of claim 53, wherein said multipotent stem cells do not express measurable levels of at least one protein selected from the group consisting of tyrosinase, c-kit, tryp1, DCT, MBP, P0, and SOX10.
 - 69. (New) The method of claim 63, wherein said mammal is a human.

- 70. (New) The method of claim 53, wherein at least 30% of said cells are multipotent stem cells.
- 71. (New) The method of claim 70, wherein at least 80% of said cells are multipotent stem cells.